

	9	18	27	36	45	54
5' NNG CCG CCT CTG CCG CCG CGG ACT TCC CGA ACC TCT TCA GCC GCC CGG AGC CGC						
	63	72	81	90	99	108
TCC CGG AGC CCG GCC GTA GAG GCT GCA ATC GCA GCC GGT GAG CCC GCA GCC CGC						
	117	126	135	144	153	162
GCC CCG AGC CCG CCG CCG CCC TTC GAG GGC GCC CCA GGC CGC GCC ATG GTG AAG M V K						
	171	180	189	198	207	216
GTG ACG TTC AAC TCC GCT CTG GCC CAG AAG GAG GCC AAG AAG GAC GAG CCC AAG V T F N S A L A Q K E A K K D E P K						
	225	234	243	252	261	270
AGC GGC GAG GAG GCG CTC ATC ATC CCC CCC GAC GCC GTC GCG GTG GAC TGC AAG S G E E A L I I P P D A V A V D C K						
	279	288	297	306	315	324
GAC CCA GAT GAT GTG GTA CCA GTT GGC CAA AGA AGA GCC TGG TGT TGG TGC ATG D P D D V V P V G Q R R A W C W C M						
	333	342	351	360	369	378
TGC TTT GGA CTA GCA TTT ATG CTT GCA GGT GTT ATT CTA GGA GGA GCA TAC TTG C F G L A F M L A G V I L G G A Y L						
	387	396	405	414	423	432
TAC AAA TAT TTT GCA CTT CAA CCA GAT GAC GTG TAC TAC TGT GGA ATA AAG TAC Y K Y F A L Q P D D V Y Y C G I K Y						
	441	450	459	468	477	486
ATC AAA GAT GAT GTC ATC TTA AAT GAG CCC TCT GCA GAT GCC CCA GCT GCT CTC I K D D V I L N E P S A D A P A A L						
	495	504	513	522	531	540
TAC CAG ACA ATT GAA GAA AAT ATT AAA ATC TTT GAA GAA GAA GAA GTT GAA TTT Y Q T I E E N I K I F E E E E V E F						
	549	558	567	576	585	594
ATC AGT GTG CCT GTC CCA GAG TTT GCA GAT AGT GAT CCT GCC AAC ATT GTT CAT I S V P V P E F A D S D P A N I V H						
	603	612	621	630	639	648
GAC TTT AAC AAG AAA CTT ACA GCC TAT TTA GAT CTT AAC CTG GAT AAG TGC TAT D F N K K L T A Y L D L N L D K C Y						
	657	666	675	684	693	702
GTG ATC CCT CTG AAC ACT TCC ATT GTT ATG CCA CCC AGA AAC CTA CTG GAG TTA V I P L N T S I V M P P R N L L E L						
	711	720	729	738	747	756
CTT ATT AAC ATC AAG GCT GGA ACC TAT TTG CCT CAG TCC TAT CTG ATT CAT GAG L I N I K A G T Y L P Q S Y L I H E						

FIGURE 1A

765	774	783	792	801	810
CAC ATG GTT ATT ACT	GAT CGC ATT GAA AAC ATT	GAT CAC CTG GGT TTC TTT	ATT		
H M V I T	D R I E N I D H L G F F	I			
819	828	837	846	855	864
TAT CGA CTG TGT CAT	GAC AAG GAA ACT TAC AAA CTG	CAA CGC AGA GAA ACT	ATT		
Y R L C H	D K E T Y K L Q R R E T	I			
873	882	891	900	909	918
AAA GGT ATT CAG AAA	CGT GAA GCC AGC AAT TGT TTC	GCA ATT CGG CAT TTT	GAA		
K G I Q K R E A S N C F A I R H F E					
927	936	945	954	963	972
AAC AAA TTT GCC GTG	GAA ACT TTA ATT TGT TCT TGA	ACA GTC AAG AAA AAC	ATT		
N K F A V E T L I C S					
981	990	999	1008	1017	1026
ATT GAG GAA AAT TAA	TAT CAC AGC ATA ACC CCA CCC	TTT ACA TTT TGT GCA	GTG		
1035	1044	1053	1062	1071	1080
ATT ATT TTT TAA AGT CTT	CTT TCA TGT AAG TAG CAA	ACA GGG CTT TAC TAT	CTT		
1089	1098	1107	1116		
TTC ATC TCA TTA ATT CAA	TTA AAA CCA TTA CCT TAA	3'			

FIGURE 1B

09207461.120798

1	MV	KV	TF	NS	AL	AQ	KE	AK	KE	DE	PK	SG	EE	AL	II	PP	DA	VA	VD	CK	D	632664	
1	MV	KI	AF	NT	TP	--	TAV	QK	EE	EA	RQ	DI	EA	LV	SR	TV	RA	QI	LT	GK	GI	624778	
41	P	D	V	V	P	P	V	G	Q	R	R	A	W	C	M	C	--	F	G	L	A	632664	
38	E	L	R	V	V	P	Q	E	K	D	G	S	S	G	R	C	M	L	T	L	G	GI	624778
79	F	A	L	O	P	D	D	V	Y	C	G	I	K	Y	I	K	D	D	V	I	L	632664	
78	F	-	M	P	K	S	T	I	Y	H	G	E	M	C	F	F	D	S	E	D	P	GI	624778
119	I	K	I	F	E	E	E	E	V	E	F	I	S	V	P	V	P	E	F	A	D	632664	
115	A	D	I	R	E	D	D	N	I	A	I	I	D	V	P	P	S	F	S	D	GI	624778	
159	L	N	L	D	K	C	Y	V	I	P	L	N	T	S	I	V	M	P	P	R	N	632664	
155	L	L	L	G	N	C	Y	L	M	P	L	N	T	S	I	V	M	T	P	K	N	GI	624778
199	I	H	E	H	M	V	I	T	D	R	I	E	N	I	D	H	L	G	F	F	I	632664	
195	V	R	E	D	L	V	A	V	E	E	I	R	D	V	S	N	L	G	I	F	I	GI	624778
239	G	I	O	K	R	E	A	S	N	C	F	A	I	R	H	F	E	N	K	F	A	632664	
235	G	F	N	K	R	A	I	D	K	C	W	K	I	R	H	F	P	N	E	F	I	GI	624778

FIGURE 2

09207161.120798

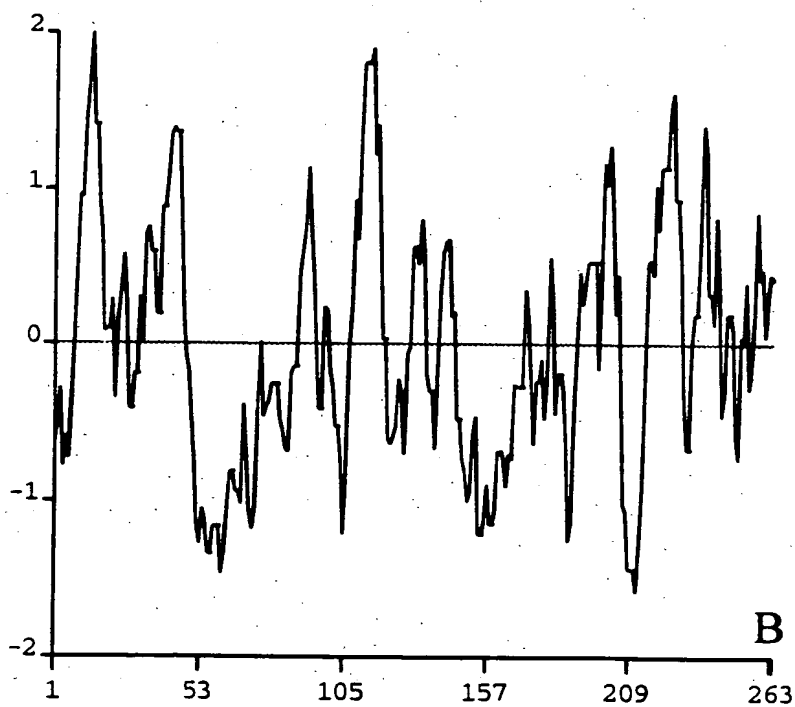
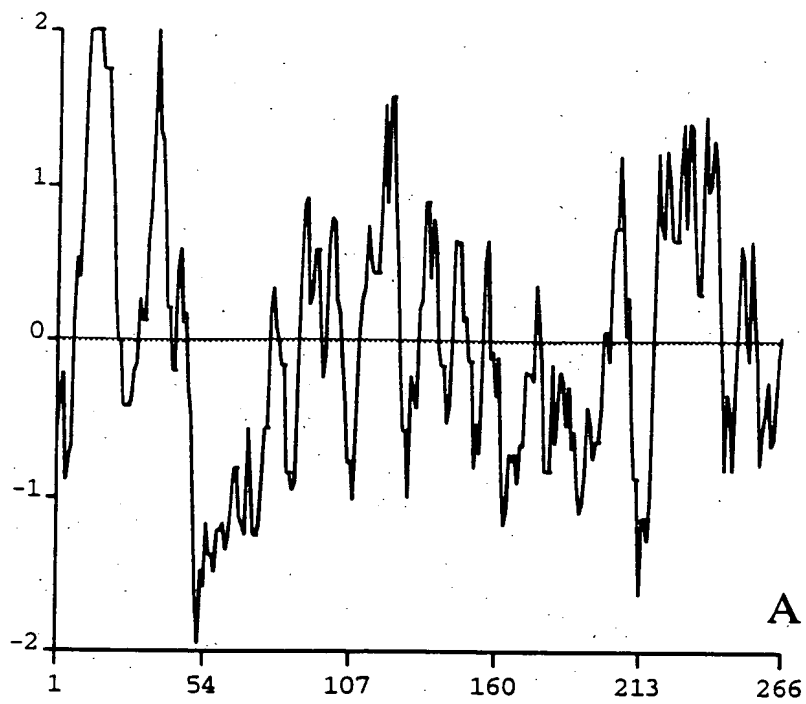


FIGURE 3

Library	Lib Description	Abun	PctAbun
LIVRNOT01	liver, 49 M	841	16.6832
LIVRNOM01	liver, 49 M, WM	484	12.2999
SPLNFET01	spleen, fetal	205	7.2259
SPLNFEM01	spleen, fetal, WM	175	5.8024
LIVRFET02	liver, fetal F	138	3.7923
LIVRBCT01	liver, primary biliary cirrhosis	34	3.5088
LIVRNOT04	liver, 32 F, plasmid	26	2.7867
LIVRNOT02	liver, 32 F	35	1.8097
COCHFEM01	ear, cochlea, fetal, WM	6	0.6944
NEUTLPT01	granulocytes, periph blood, M/F, treated LPS	26	0.4505
LVENNOT02	heart, left ventricle, 39 M	2	0.4193
NEUTGMT01	granulocytes, M/F periph blood, treated GM-CSF	20	0.3128
PLACNOM01	placenta, fetal M, WM	5	0.2900
BSTMNON02	brain stem, 72 M, NORM	9	0.2868
LIVSFEM02	liver/spleen, fetal M, NORM, WM	99	0.2610
HMC1NOT01	HMC-1 mast cell line, 52 F	7	0.2341
LATRTUT02	heart tumor, myoma, 43 M	17	0.2336
NEUTFMT01	granulocytes, periph blood, M/F, treated fMLP	13	0.2275
LUNGFEM01	lung, fetal, NORM, WM	14	0.2074
LUNGNOT09	lung, fetal M	7	0.2001
COLNFET02	colon, fetal F	14	0.1999
KIDNNOT05	kidney, neonatal F	18	0.1902
PGANNOT01	paraganglionic tumor, benign, 46 M	11	0.1759
COLNNOT19	large intestine, cecum, 18 F	6	0.1756
MENITUT03	brain tumor, benign meningioma, 35 F	7	0.1745
BRSTNOT01	breast, 56 F	9	0.1734
LUNGNOT02	lung, 47 M	7	0.1720
LUNGNOT01	lung, 72 M	5	0.1690
LUNGNOT12	lung, 78 M	6	0.1668
CARDFEM01	heart, fetal, NORM, WM	20	0.1663
LUNGA01	lung, asthma, 17 M	17	0.1605
PROSNON01	prostate, 28 M, NORM	17	0.1600
OVARNON01	ovary, 59 F, NORM	1	0.1595
ADREN07	adrenal gland, 61 F	10	0.1523
BLADTUT06	bladder tumor, carcinoma, 58 M	3	0.1521
OVARNOM01	ovary, 49 F, WM	2	0.1504
EOSIHET02	eosinophils, hypereosinophilia, 48 M	14	0.1465
RATRNOT02	heart, right atrium, 39 M	6	0.1423
BRSTTUT02	breast tumor, 54 F, match to BRSTNOT03	10	0.1397
BRAINOT10	brain, cerebellum, Alzheimer's, 74 M	4	0.1393
SCORNON02	spinal cord, 71 M, NORM	4	0.1381
PANCDIT01	pancreas, Type I diabetes, 15 M	3	0.1371
BEPINON01	bronchial epithelium, primary cell line, M	5	0.1368
SYNORAB01	synovium, hip, rheumatoid, 68 F	7	0.1367
PROSNOT19	prostate, 59 M	5	0.1358
BRAITUT02	brain tumor, metastasis, 58 M	18	0.1342
LUNGNOM01	lung, 72 M, WM	5	0.1336
UTRSNOT02	uterus, 34 F	17	0.1318
STOMFET01	stomach, fetal F	5	0.1276
PGANNOT03	paraganglionic tumor, paraganglioma, 46 M	4	0.1244
COLNNOT07	colon, 60 M	3	0.1227
COLSUCT01	colon, sigmoid, ulcerative colitis, 70 M	3	0.1226
PITUNOT02	pituitary, 15-75 M/F	9	0.1211
LUNGNOT18	lung, 66 F	4	0.1191

FIGURE 4A

SYNORAT03	synovium, wrist, rheumatoid, 56 F	7	0.1187
UTRSNOT01	uterus, 59 F	3	0.1181
PROSTUT04	prostate tumor, 57 M, match to PROSNOT06	10	0.1172
SYNORAT05	synovium, knee, rheumatoid, 62 F	4	0.1144
LUNGNOT04	lung, 2 M	6	0.1098
PROSNOT26	prostate, 65 M	4	0.1080
PTHYTUM01	parathyroid tumor, adenoma, M/F, NORM, WM	4	0.1071
TYMNOT01	lymphocytes (non-adher PBMNC), 24 M	1	0.1070
BRAITUT13	brain tumor, meningioma, 68 M	4	0.1048
PITUNOT03	pituitary, 46 M	3	0.1045
PROSNOT07	prostate, 69 M, match to PROSTUT05	3	0.1045
COLNNOT11	colon, 60 M	7	0.1041
SINTFET03	small intestine, fetal F	8	0.1037
BRSTNOM02	breast, F, NORM, WM	5	0.1032
LUNGFET03	lung, fetal F	15	0.1032
PROSNOT14	prostate, 60 M, match to PROSTUT08	4	0.1023
BRSTTUT08	breast tumor, 45 F, match to BRSTNOT09	4	0.1015
PLACNOB01	placenta, neonatal F	4	0.1006
OVARNOT03	ovary, 43 F, match to OVARTUT01	6	0.1003
THYMNOT02	thymus, 3 M	5	0.0969
GBLATUT01	gall bladder tumor, 78 F	4	0.0966
THP1T7T01	THP- 1 promonocyte cell line, untreated	2	0.0965
KIDNNOT02	kidney, 64 F	2	0.0964
BRSTNOT04	breast, 62 F	10	0.0960
SYNORAT01	synovium, elbow, rheumatoid, 51 F	2	0.0956
FIBRNOT01	WI38 lung fibroblast cell line, 3m F	2	0.0938
OVARTUT01	ovarian tumor, 43 F, match to OVARNOT03	9	0.0931
PROSTUT01	prostate tumor, 50 M, match to PROSNOT02	3	0.0930
BRAINOT03	brain, 26 M	5	0.0927
PROSNOT16	prostate, 68 M	7	0.0921
KERANOT01	keratinocytes, neonatal M	4	0.0918
THYRNOT02	thyroid, hyperthyroidism, 16 F	3	0.0910
MPHGNOT03	macrophages (adher PBMNC), M/F	7	0.0905
OVARNOT02	ovary, 59 F	8	0.0899
BRAITUT03	brain tumor, astrocytoma, 17 F	12	0.0890
COLNNOT05	colon, 40 M, match to COLNCRT01	3	0.0866
TMLR2DT01	lymphocytes (non-adher PBMNC), M/F, 24-hr MLR	4	0.0848
ENDCNOT03	endothelial cells, neonatal M	4	0.0838
MYOMNOT01	uterus, myometrium, 43 F	2	0.0818
CONNTUT01	skull tumor, chondroid chordoma, 30 F	3	0.0812
LUNGNOT03	lung, 79 M, match to LUNGTUT02	4	0.0801
LATRNOT01	heart, left atrium, 51 F	3	0.0798
COLNNOT09	colon, 60 M	2	0.0781
CRBLNOT01	brain, cerebellum, 69 M	4	0.0781
PGANNON02	paraganglionic tumor, benign, 46 M, NORM	1	0.0780
THP1NOT03	THP-1 promonocyte cell line, untreated	6	0.0773
MUSCNOT02	muscle, psoas, 12 M	2	0.0771
SINTTUT01	small intestine tumor, ileum, 42 M	2	0.0763
BRAITUT08	brain tumor, astrocytoma, 47 M	5	0.0733
HEARNOT01	heart, 56 M	1	0.0713
MMLR2DT01	macrophages (adher PBMNC), M/F, 48-hr MLR	4	0.0711
PROSTUT03	prostate tumor, 67 M, match to PROSNOT05	2	0.0704
SYNORAT04	synovium, wrist, rheumatoid, 62 F	4	0.0697
SINTNOT02	small intestine, 55 F	2	0.0692
BRAINON01	brain, 26 M, NORM	7	0.0691
BRSTTUT03	breast tumor, 58 F, match to BRSTNOT05	7	0.0690

FIGURE 4B

THYRNOT01	thyroid, 64 F	3	0.0687
ADRENOT03	adrenal gland, 17 M	2	0.0682
BRSTNOT05	breast, 58 F, match to BRSTTUT03	9	0.0672
PLACNOT02	placenta, fetal F	4	0.0672
PROSNOT20	prostate, 65 M, match to PROSTUT12	2	0.0671
PLACNOM02	placenta, neonatal F, NORM, WM	12	0.0667
MMLR3DT01	macrophages (adher PBMNC), M/F, 72-hr tmt	2	0.0664
COLNTUT02	colon tumor, 75 M, match to COLNNOT01	3	0.0661
COLNNOT13	colon, ascending, 28 M	2	0.0621
BRAINOT12	brain, right frontal, epilepsy, 5 M	2	0.0607
ENDCNOT02	endothelial cells, 30 F	1	0.0604
SCORNOT01	spinal cord, 71 M	3	0.0603
CONNNOT01	fat, mesentery, 71 M	4	0.0595
TONGTUT01	tongue tumor, carcinoma, 36 M	2	0.0590
BRSTNOT07	breast, 43 F	4	0.0585
NGANNOT01	ganglioneuroma, 9 M	8	0.0585
PANCNOT05	pancreas, 2 M	4	0.0583
HNT2AGT01	hNT2 cell line, post-mitotic neurons	3	0.0576
PROSNOT05	prostate, 67 M, match to PROSTUT03	1	0.0576
THP1NOT01	THP-1 promonocyte cell line, untreated	1	0.0571
LUNGTUT02	metastatic lung tumor, 79 M	3	0.0567
PROSNOT11	prostate, 28 M	2	0.0564
SININOT01	small intestine, ileum, 4 F	2	0.0560
PROSTUT12	prostate tumor, 65 M, match to PROSNOT20	2	0.0559
THYRNOT03	thyroid tumor, adenoma, 28 F	4	0.0553
SINTNOT13	small intestine, ulcerative colitis, 25 F	2	0.0551
SEMVNOT01	seminal vesicle, 58 M	2	0.0544
SYNOOAT01	synovium, knee, osteoarthritis, 82 F	3	0.0539
UTRSNOT08	uterus, endometrium, 35 F	2	0.0534
PENITUT01	penis tumor, carcinoma, 64 M	2	0.0533
PROSTUT08	prostate tumor, 60 M, match to PROSNOT14	2	0.0532
LUNGNOT10	lung, fetal M	2	0.0522
CONUTUT01	mesentery tumor, sigmoid, 61 F	4	0.0520
LUNGNOT14	lung, 47 M	2	0.0519
PROSNOT18	prostate, 58 M	2	0.0513
HEARFET01	heart, fetal M	2	0.0508
PANCNOT08	pancreas, 65 F, match to PANCTUT01	2	0.0508
SINTBST01	small intestine, ileum, Crohn's, 18 F	3	0.0505
TMLR3DT02	lymphocytes (non-adher PBMNC), 72-hr MLR	2	0.0492
THP1PEB01	THP-1 promonocyte cell line, treated PMA	1	0.0488
PROSNOT15	prostate, 66 M, match to PROSTUT10	2	0.0483
HIPONOT01	brain, hippocampus, 72 F	2	0.0478
LUNGTUT03	lung tumor, 69 M, match to LUNGNOT15	3	0.0478
COLNCRT01	colon, Crohn's, 40 M, match to COLNNOT05	1	0.0468
THP1PLB01	THP-1 promonocyte cell line, tmt PMA, LPS	1	0.0452
CARDNOT01	heart, 65 M	1	0.0404
TESTNOT03	testis, 37 M	3	0.0387
HNT3AZT01	hNT2 cell line, treated AZ	2	0.0381
BLADTUT04	bladder tumor, 60 M, match to BLADNOT05	3	0.0380
SPLNFET02	spleen, fetal M	3	0.0379
THP1AZT01	THP-1 promonocyte cell line, treated AZ	2	0.0369
STOMTUT01	stomach tumor, 52 M, match to STOMNOT02	1	0.0368
PLACNOM03	placenta, fetal, NORM, WM	1	0.0363
BRAINOT04	brain, choroid plexus, hemorrhage, 44 M	1	0.0356

FIGURE 4C

PROSNOT01	prostate, 78 M	1	0.0351
PROSNOT06	prostate, 57 M, match to PROSTUT04	3	0.0343
LVENNOT03	heart, left ventricle, 31 M	1	0.0339
HIPONON01	brain, hippocampus, 72 F, NORM	1	0.0338
PANCNOT04	pancreas, 5 M	2	0.0338
LNODNOT02	lymph nodes, 42 F	1	0.0335
THP1NOB01	THP-1 promonocyte cell line, control	1	0.0328
LPARNOT02	parotid gland, 70 M	1	0.0324
LUNGNOT20	lung, 61 M	1	0.0309
BLADTUT02	bladder tumor, 80 F, match to BLADNOT03	1	0.0305
COLNNOT27	large intestine, cecum, Crohn's, 31 M	1	0.0303
STOMNOT01	stomach, 55 M	1	0.0303
BRSTNOT03	breast, 54 F, match to BRSTTUT02	2	0.0294
COLNTUT06	large intestine, cecal tumor, 45 F	1	0.0293
FIBRSEM01	fibroblasts, senescent, NORM, WM	1	0.0289
DUODNOT01	small intestine, duodenum, 41 F	1	0.0287
BRAINOT09	brain, fetal M	3	0.0280
BLADNOT04	bladder and seminal vesicle, 28 M	1	0.0278
THYRTUT03	thyroid tumor, benign, 17 M	1	0.0276
HYPONOB01	hypothalamus, 16-75 M/F	1	0.0272
BLADNOT03	bladder, 80 F, match to BLADTUT02	1	0.0271
ENDCNOT01	endothelial cells, coronary artery, 58 M	1	0.0268
PROSTUT10	prostate tumor, 66 M, match to PROSNOT15	1	0.0268
BLADNOT06	bladder, 66 M, match to BLADTUT05	1	0.0267
KIDNNOT09	kidney, fetal M	1	0.0267
BLADNOT05	bladder, 60 M, match to BLADTUT04	1	0.0264
LEUKNOT03	white blood cells, 27 F	1	0.0262
URETTUT01	ureter tumor, 69 M	1	0.0262
BRAITUT07	brain tumor, left frontal, 32 M	1	0.0259
LIVRTUT01	liver tumor, metastasis, 51 F	1	0.0259
PANCTUT02	pancreatic tumor, carcinoma, 45 F	3	0.0258
ENDANOT01	endothelial cells, aorta, M	2	0.0257
ISLTNOT01	pancreas, islet cells, M/F	4	0.0257
SKINBIT01	skin, leg, erythema nodosum	1	0.0256
BRSTNOT09	breast, 45 F, match to BRSTTUT08	1	0.0255
UCMCL5T01	mononuclear cells, treated IL-5	3	0.0253
MMLR1DT01	macrophages (adher PBMNC), M/F, 24-hr MLR	1	0.0236
TMLR3DT01	lymphocytes (non-adher PBMNC), M, 96-hr MLR	1	0.0229
BRSTNOT02	breast, 55 F, match to BRSTTUT01	2	0.0222
SPLNNOT02	spleen, 29 M	1	0.0220
PANCNOT01	pancreas, 29 M	1	0.0214
COLNNOT01	colon, 75 M, match to COLNTUT02	1	0.0213
COLNNOT16	colon, sigmoid, 62 M, match to COLNTUT03	1	0.0208
CORPNOT02	brain, corpus callosum, Alzheimer's, 74 M	2	0.0205
UTRPNOM01	uterus, F, NORM, WM	1	0.0201
MELANOM01	melanocytes, M, NORM, WM	2	0.0192
ADENINB01	adenoid, inflamed, 3y	1	0.0190
BRAINOM01	brain, infant F, NORM, WM	4	0.0178
BRAITUT01	brain tumor, oligoastrocytoma, 50 F	1	0.0134
SPLNNOT04	spleen, 2 M	1	0.0128

FIGURE 4D